

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Eric M. Rentschler, et al.

C nfirmation No.:

Application No.:

Examiner:

Filing Date: 10/28/2003

Group Art Unit:

Title: MEMORY CONTROLER WITH 1X/MX WRITE CAPABILITY

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- (X) under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- () under 37 CFR 1.97(c) together with either a:
() Statement under 37 CFR 1.97(e), or
() a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- () under 37 CFR 1.97 (d) together with a:
() Statement under 37 CFR 1.97(e)(1) or (2), and
() a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

(X) Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

() A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

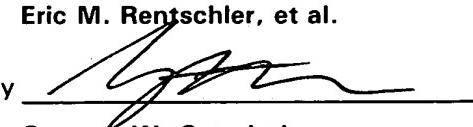
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Respectfully submitted,

Date of Deposit 10/28/2003

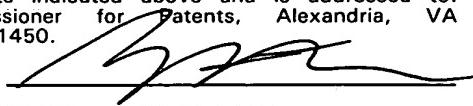
Eric M. Rentschler, et al.

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

By 

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Attorney/Agent for Applicant(s)
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By 

Typed Name: Gregory W. Osterlof

Date: 10/28/2003

FORM PTO-1449		ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION NO.
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		10004120-3		
(Use several sheets if necessary)		APPLICANT	Eric M. Rentschler, et al.	
		FILING DATE	GROUP	
		10/28/2003		

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
1A	5,418,924	05/1995	Dresser	
1B	5,522,064	05/1996	Aldereguia et al.	
1C	5,701,438	12/1997	Bains	
1D	5,727,005	03/1998	Le et al.	
1E	5,809,340	09/1998	Bertone et al.	
1F	5,974,499	10/1999	Norman et al.	
1G	6,005,412	12/1999	Ranjan et al.	
1H	6,065,132	05/2000	Takano, Toshiya	
1I	6,125,078	09/2000	Ooishi et al.	
1J	6,144,598	11/2000	Cooper et al.	
1K	6,288,971 B1	09/2001	Kim	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
1L	W099/04494	01/28/1999	Intel Corporation		
1M					
1N					
1O					
1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	"DDR SDRAM Registered DIMM Design Specification", IBM, March 2000 (62 pages)
1R	"DDR SDRAM Module Serial Presence Detect Definitions", IBM, October 1999 (34 pages)
1S	JEDEC Standard No. 79, "Double Data Rate (DDR) SDRAM Specification", June 2000 (72 pages)

EXAMINER _____ DATE CONSIDERED _____

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY. DOCKET NO. 10004120-3	APPLICATION NO.	CONFIRMATION NO.
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REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
2A	6,324,119	11/2001	Kim	
2B	6,338,113	01/2002	Kubo et al.	
2C	6,370,630	04/2002	Mizuyabu et al.	
2D	6,414,868	07/2002	Wong et al.	
2E	6,424,198	07/2002	Wolford	
2F	6,480,946	11/2002	Tomishima et al.	
2G	6,530,001	03/2003	Lee, Jung-Keun	
2H	6,532,525	03/2003	Aleksic et al.	
2I	6,553,450	04/2003	Dodd et al.	
2J	6,625,702	09/2003	Rentschler, et al.	
2K	6,633,965	10/2003	Rentschler et al.	

FOREIGN PATENT DOCUMENTS

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2L					
2M					
2N					
2O					
2P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

2Q	"Preliminary Publication of JEDEC Semiconductor Memory Standards-DDR SDRAM Specification", August 1999 (73 pages)
2R	
2S	

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EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
3A	2001/0003837	06/2001	Norman et al.	
3B	2001/0046163	11/2001	Yanagawa, Miki	
3C	2001/0054135	12/2001	Matsuda	
3D	2002/0147896	10/2002	Rentschler et al.	
3E	2002/0172079	11/2002	Hargis et al.	
3F				
3G				
3H				
3I				
3J				
3K				

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	3L					
	3M					
	3N					
	3O					
	3P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

3Q	
3R	
3S	

EXAMINER

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